Previous and ongoing Master's thesis projects for students of Pharmaceutical Design and Engineering

ALK Abelló A/S:
- Optimization of house dust mite tablet manufacturing FINISHED
- Development of new Major allergen purification method (starts spring 2015)

Lundbeck A/S:
- The effect of functionalized dendrimers on fibrillated alpha-synuclein FINISHED
- Cellular mechanisms involved in the dendrimer mediated clearance of alpha-synuclein aggregation
- Optimization of clearance protocol to assess with higher accuracy intrinsic clearance for metabolically stable compounds (starts autumn 2014)

Nanovi ApS:
- Nanoparticle-Based Contrast Agents for Molecular Imaging FINISHED

Bioneer A/S:
- Immunomodulating properties of dendrimer constructs FINISHED
- Blood-brain barrier transport FINISHED

Symphogen A/S:
- QbD (Quality by Design) applied to upstream polyclonal antibody cell culture FINISHED
- Evaluation of variable heavy and light chain scrambling as an alternative method for isolation of cancer-specific antibodies (starts autumn 2014)

SSI:
- Resistens og toxin test i Escherichia coli i voksne FINISHED
- Enteroaggregativ Escherichia coli hos born FINISHED
- Molecular typing of Bodetella pertussis FINISHED
- Optimization of Multiplex PCR used to detect Enteroaggregative Escherichia coli

Zealand Pharma A/S:
- Inflammation related gene expression in rodent diet induced obesity models

DTU Nanotech:
- Design of dilution system for automatic calibration of Biosensors FINISHED
- Development of Lipid Nanoparticles for siRNA Delivery Comprising a MMP Cleavable PEG Coating for Target Specific Charge Triggering FINISHED
- A Matrix Metalloprotease-Dependent Drug Delivery System for Chemotherapeutics FINISHED

2CureX A/S & DTU Chemical Engineering:
- Preparation and characterization of xyloglucan gels FINISHED

Ferring Pharmaceuticals A/S:
- Development of a Cell-based Assay for Detection of Neutralizing Antibodies and Comparing Validation Parameters with a Competitive Ligand Binding Neutralization Assay
Nordic Bioscience A/S:

- Identification of auto-antigens in autoimmune diseases and evaluation of cellular response to auto-antigens in culture
- Characterization of the effect of sCT on fat accumulation in vitro and in vivo
- Molecular Pharmacology of the Calcitonin receptor
- Development of a model for osteoclasts in osteoarthritis